Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A compound of the formula II

wherein

one of R1 and R2 is halo and the other is H or halo:

R³ is C₁-C₅ straight or branched chain, optionally fluorinated, alkyl;

R4 is H: or

R3 together with R4 defines

a spiro- C_5 - C_7 cycloalkyl, optionally substituted with 1 to 3 substituents selected from halo, hydroxyl, C_1 - C_4 alkyl or C_1 - C_4 haloalkyl; or optionally bridged with a methylene group; or

a $C_4\text{-}C_6$ saturated heterocycle having a hetero atom selected from

O, NRa, S,
$$S(=O)_2$$
;

R⁵ is independently selected from H or methyl;

R⁶ is a stable, optionally substituted, monocyclic or bicyclic, carbocycle or heterocycle wherein the or each ring has 4.5 or 6 ring atoms and 0 to 3 hetero atoms selected

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from S, O and N and wherein the optional substituents comprise 1 to 3 members selected from $R_{\alpha} R^{\gamma}$;

 $R_7 R^7$ is independently selected from halo, oxo, nitrile, nitro, C_1 - C_4 alkyl, [[-XNRaRb,]] -X-NRbR 9 , [[-NRb-XNRaRb-R 9]] -NRb-X 1 -R 9 , NH₂CO-, -X-R 9 , -X-O-R 9 , [[O-X-R 9]] -O-X 1 -R 9 , -X-C(=O)NR 9 , -X-(C=O)NRaR 9 , -X-NRbC(=O)R 9 , -X-NHSO_mR 9 , -X-S(=O)_mR 9 , -X-C(=O)OR 9 , -X-NRbC(=O)OR 9 ;

 $R_0 R^0$ is independently H, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, indolinyl, pyranyl, thiopyranyl, furanyl, thienyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, imidazolyl, pyridinyl, pyrimidinyl, pyrazinyl, indolyl, phenyl, any of which is optionally substituted with R^{10} ;

 $R_{40} R^{10}_{40}$ is independently selected from hydroxy, XR^9 , XNRaRb, $XNRbR^9$, $NRbC_4$ - C_4 alkyl R^9 XR^9 , $XRbR^9$, $XRbR^9$, R^9

 R^{9*} is independently H, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, indolinyl, pyranyl, thiopyranyl, furanyl, thienyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, imidazolyl, pyridinyl, pyrimidinyl, pyrazinyl, indolyl, phenyl, any of which is optionally substituted with R^{10*} ;

 R^{10} , is independently selected from hydroxy, nitro, cyano, carboxy, oxo, C_1 - C_4 alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 alkanoyl, carbamoyl; or, where R^6 is a monocyclic group substituted directly or via methylene by an aryl or a 5 or 6 membered hetereoaryl moiety substituted by R^9 , which is a morpholinyl, piperidinyl or piperazinyl group, then R^{10} , can additionally be fluoro, difluoro, or C_1 - C_4 -alkyloxy C_1 - C_4 -alkyl-; or, where R^6 is phenyl substituted by thiazol-4-yl, 5-methylthiazol-4-

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yl or thien-2-yl, any of which is substituted by morpholinylmethyl-, piperidinylmethyl-,

piperazinylmethyl-, then R¹⁰, may additionally be fluoro, difluoro or C₁-C₃ alkyl-O-C₁-C₃ alkyl-:

X is independently a bond or C₁-C₄ alkylenyl;

X' is independently C₁-C₄ alkylenyl;

Ra is independently H, C₁-C₄ alkyl or CH₃C(=O);

Rb is independently H, or C₁-C₄ alkyl

m is independently 0,1 or 2;

or a pharmaceutically acceptable salt or prodrug solvate thereof.

 (Original) A compound according to claim 1, wherein the stereochemistry is as depicted in the partial structure below:

 (Original) A compound compound according to claim 1, wherein the stereochemistry is as depicted in the partial structure below:

- 4. (Original) A compound according to claim 1, wherein R² is halo and R¹ is H.
- 5. (Original) A compound according to claim 4, wherein R² is fluoro.
- 6. (Original) A compound according to claim 1, wherein R^1 and R^2 are fluoro.
- 7. (Original) A compound according to claim 1, wherein R^3 is C_1 - C_4 branched chain

alkyl.

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8. (Original) A compound according to claim 7, wherein R³ is iso-butyl.

9. (Original) A compound according to claim 1, wherein R³ and R⁴ together define

spirocycloalkyl.

10. (Original) A compound according to claim 9, wherein R³ and R⁴ together define

spirocyclohexyl.

11. (Original) A compound according to claim 1, wherein R⁵ is H.

12. (Original) A compound according to claim 1, wherein E is -C(=O)-.

13. (Original) A compound according to claim 1, wherein R⁶ is substituted phenyl.

14. (Original) A compound according to claim 13, wherein the substituent comprises

-NRaRb, -CH₂NRaRb, -NRbR⁹, -NRbC₁-C₄alkylR⁹, C₁-C₄ straight or branched alkyl or -O-R⁹.

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15. (Original) A compound according to claim 14, wherein the substituent comprises

 $\hbox{-NH-CH$_2$phenyl, -NHCH$_2$pyridyl or -NH-phenyl, wherein each phenyl or pyridyl ring is} \\$

substituted with $C_1\text{-}C_4\text{-}alkyl$, -NRaRb, -NRbR 9 or -NRb $C_1\text{-}C_4alkylR<math>^9$.

16. (Original) A compound according to claim 13, wherein the substituent comprises

 $C_3\text{-}C_6 \ cycloalkyl, \ pyrrolidinyl, \ piperidinyl, \ morpholinyl, \ thiomorpholinyl, \ piperazinyl, \ indolinyl,$

pyranyl, thiopyranyl, furanyl, thienyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, imidazolyl,

pyridinyl, pyrimidinyl, pyrazinyl, indolyl, phenyl, any of which is optionally substituted with

 \mathbb{R}^{10} .

17. (Original) A compound according to claim 16, wherein the substituent is selected

from indolinyl, pyranyl, thiopyranyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, imidazolyl,

pyridinyl, pyrimidinyl, pyrazinyl, indolyl, any of which is optionally substituted with R¹⁰.

18. (Original) A compound according to claim 17, wherein the substituent is

thiazolyl, 5-methyl-thiazolyl or thienyl, optionally substituted with $\ensuremath{R^{10}}\xspace$.

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 (Original) A compound according to claim 18, wherein the substituent is thiazol-4-yl. 5-methylthiazol-4-yl or thien-2-yl, optionally substituted with R¹⁰.

- 21. (Original) A compound according to claim 20, wherein the substituent to the thiazolyl, 5-methylthiazolyl or thienyl is piperid-4-yl which is substituted with methyl, piperazinyl which is N-substituted with C₁-C₃ alkyl or methyloxyethyl-, -or piperid-1-ylmethyl-which is unsubstituted or 4-substituted with fluoro or di-fluoro.
- (Original) A compound according to claim 13, wherein the substituent comprises a morpholine, piperidine or piperazine ring, optionally substituted with R¹⁰.
- (Original) A compound according to claim 22 comprising piperid-4-yl or Npiperazinyl, N-substituted with Ra or piperidin-1-yl which is 4-substituted with -NRaRb.
- $24. \hspace{0.5cm} \hbox{(Original)} \hspace{0.5cm} A \hspace{0.5cm} \hbox{compound according to claim 1, wherein R^6 is optionally} \\ \hbox{substituted: benzothiazol or benzofuryl or benzoxazolyl.}$
- 25. (Currently amended) A compound according to claim 24, wherein the substituent is $-OR^9$, [[$-OXR^9$]] $-O-X'-R^9$, $-NRbR^9$ or [[$-NRbXR^9$]] $-NRb-X'-R^9$.
- $26. \quad \text{(Original)} \quad \text{A compound according to claim 25, wherein } R^9 \text{ is piperid-4-yl,} \\ \text{piperazin-1-yl or piperidin-1-yl or morpholino, any of which is substituted with } C_1\text{-}C_3 \text{ alkyl}.$
- (Original) A compound according to claim 26, wherein the optional substituent to
 R⁶ is N-morpholinylethyloxy, N-methylpiperid-4-yloxy, or N-methylmorpholin-3-ylmethyloxy.

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 (Previously presented) A pharmaceutical composition comprising a compound as defined in claim 1 and a pharmaceutically acceptable carrier or diluents therefor.

- (Withdrawn) A method for the treatment of a disorder mediated by cathepsin K comprising administering a compound as defined in claim 1.
- 30. (Withdrawn) A method according to claim 29, wherein the disorder is selected from:

osteoporosis,

gingival diseases such as gingivitis and periodontitis,

Paget's disease,

hypercalcaemia of malignancy

metabolic bone disease

diseases characterised by excessive cartilege or matrix degradation, such as osteoarthritis and rheumatoid arthritis.

bone cancers including neoplasia,

pain.

31. (New) A compound according to claim 1 which is:

or a pharmaceutically acceptable salt or solvate thereof.